D-5715

NEW!

MIRROPTIC

Comparator

New reflective principle lets you observe and measure work in process.

Made in U.S.A.

A Precision Optical Instrument for Fast, Accurate Measurement of Small Dimensions

National Tool Co.

a division of National Cleveland Corporation

11222 Madison Avenue • Cleveland 2, Ohio

A Precision Optical Instrument for Accurate Measuring of Small Dimensions

The MIRROPTIC Comparator consists of a die-cast aluminum frame carefully machined for dimensional accuracy. It embodies a reflective mirror of the beam splitter type which permits approximately 50% of the light to be transmitted while the remaining 50% is reflected. The lens is a two element cemented doublet and is an antistigmatic type lens. It provides 5 power magnification.

The reticles are made on mylar type film and may be turned within the reticle retainer to avoid moving the entire instrument where this is desirable. A typical reticle pattern recommended for general use and supplied with the instrument is shown in this folder. Custom reticles for special jobs and special industries can be produced quickly and economically. Many users of the Mirroptic Comparator make their own special reticles and [redacted] extra recticle disks are supplied with each instrument for this purpose.

At the base of the Comparator is a shock proof, scratch resistant acrylic plate which supports the part to be checked at the correct focal plane.

Special Advantages of the New MIRROPTIC Comparator

This unit should not be confused with inexpensive, inferior quality "gadget" type devices which claim accuracy and durability which they do not possess. The Mirroptic Comparator is built to the highest possible quality standards and is an industrial tool—not a toy or a home workshop gadget.

Major advantages of the Mirroptic Comparator are as follows—these are advantages that apply when comparing this product to other high quality comparators available to industry today.

1. The design of the Mirroptic Comparator permits observation of work in process with the reticle visually, though not physically, superimposed on the work. No other Comparator provides this feature.

2. No contact is possible between the work to be observed and the reticle itself. This is because of the instrument's reflective principle of operation. Consquently reticles are not subjected to wear—an important economy feature.

3. The Mirroptic's mylar film type reticles are easy to make for special purposes. Custom reticles can be supplied by us to your drawing quickly and inexpensively or you can easily make them yourself.

This General Purpose Reticle is supplied with each MIRROPTIC Comparator

2 reticle disks are also supplied with each instrument so that the user can make his own custom reticles for special purposes.

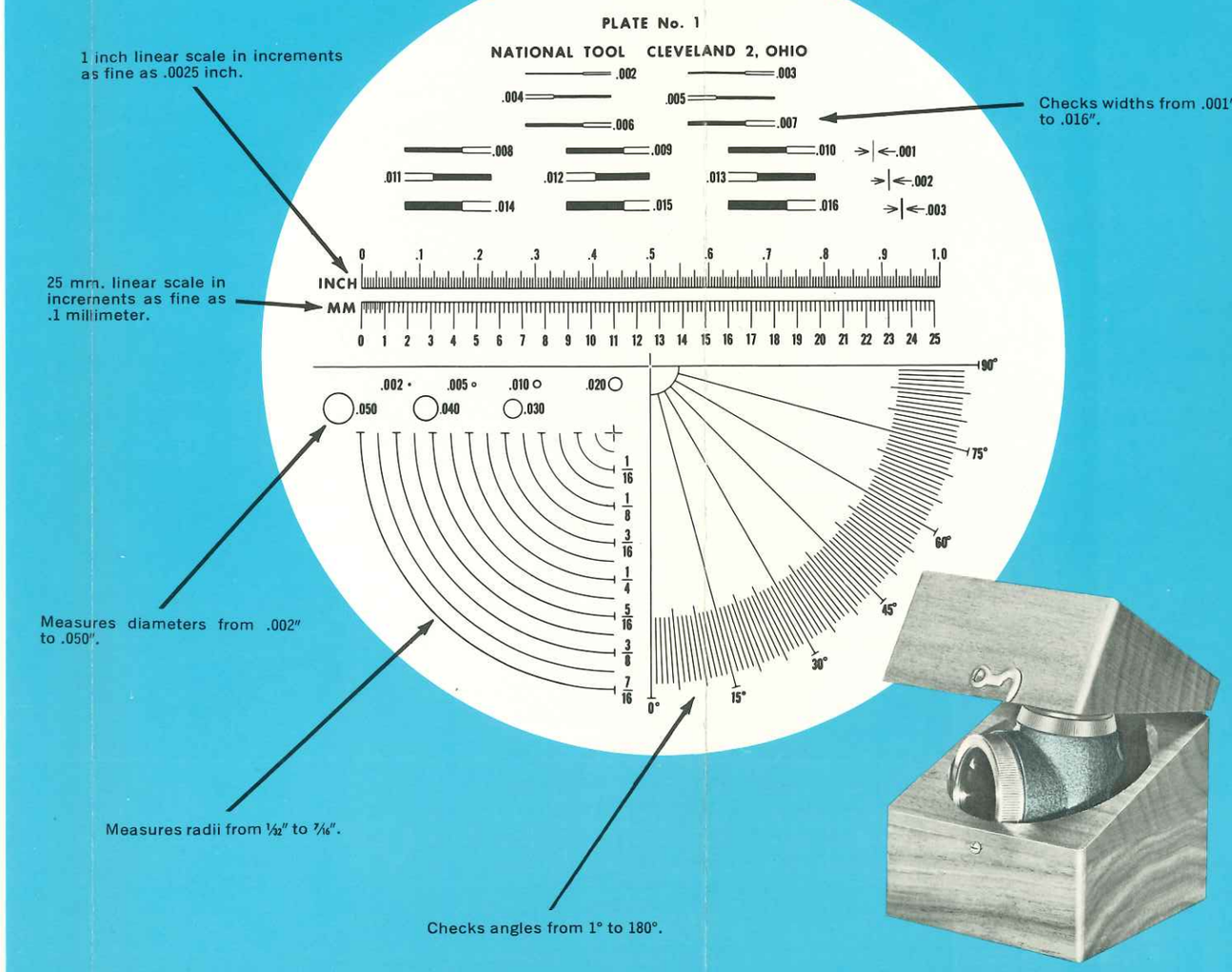
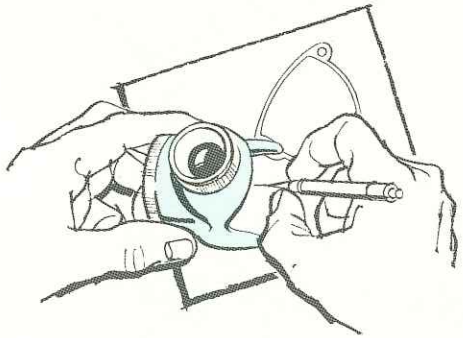
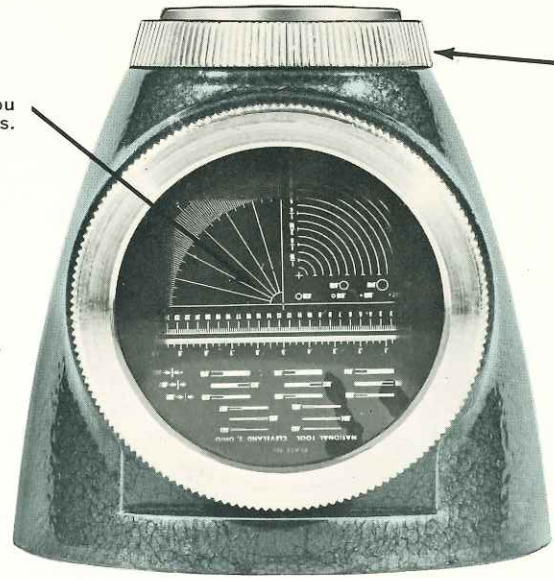


PLATE No. 1
NATIONAL TOOL CLEVELAND 2, OHIO
1 inch linear scale in increments as fine as .0025 inch.
Checks widths from .001" to .016".
25 mm. linear scale in increments as fine as .1 millimeter.
Measures diameters from .002" to .050".
Measures radii from 1/32" to 7/16".
Checks angles from 1° to 180°.

Attractively and conveniently boxed for safe keeping when not in use.



Reticle retainer is easily removed. You can change reticles in five seconds.



Knurled focus mechanism contains 5 power antistigmatic lens — completely removable for easy cleaning.

Beam-splitter type mirror provides 50% light transmission and 50% reflection.

Shock proof acrylic plate supports part to be checked at correct focal plane, swivels to permit marking of work.

with the MIRROPTIC Comparator you can actually mark the work while you are measuring it

Rugged aluminum die-cast frame—precision machined.

Easy to use and to maintain

This instrument should be positioned on work to permit maximum illumination. If the reticle or work appears fuzzy, the focal length may be changed by adjusting the knurled focus mechanism which contains the lens until maximum clarity is obtained. This in no way affects the accuracy of the measurements. Both the reticle retainer and lens assembly are easily removed for cleaning of interior elements.

See your National Tool Co. representative or your local jobber.

The price of this instrument is **$39.50**

It is unconditionally guaranteed by National Tool Co. — division of National Cleveland Corp. Reg. U. S. Patent Office — Patent No. 2911879.